SPECTRALFINGERPRINTS

# CERTIFICATE OF ANALYSIS

*ADVANCED CANNABIS ANALYTICS*
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| THP420 Pen+Cartridge GSC | Report No: A22605-en-1 | Customer |
|---|---|---|
| Product description: /<br>Batch number: 20261025<br>Sample type: extracts and hemp final products<br>SFP id: V21046<br>Sample received date: 2026-10-23<br>Remarks: / | Method id:<br>GCMS_GC_FID_general_with_HPLC_v1.0<br>Date of aquisition: 2026-10-23<br>Date of processing: 2026-10-24<br>Analysis ID: : A22605<br>Remarks: / | AVOS trade s.r.o.<br>Praha 11. Chodov<br>Roztylska 1860/1<br>Czech republic |




## Assay of Main/Natural Cannabinoids

| Short | Substance name | Assay % | M.U. |
|---|---|---|---|
| CBG | Cannabigerol | 2.72 | 0.16 |
| CBC | Cannabichromene | 1.26 | 0.08 |
| CBGV | Cannabigerivarin | ND | ND |
| CBDV | Cannabidivarin | 0.61 | 0.04 |
| CBCV | Cannabichromevarin | ND | ND |
| CBN | Cannabinol | 4.10 | 0.25 |
| CBD | Cannabidiol | 43.50 | 1.74 |
| Δ8-THC | Δ8-tetrahydrocannabinol | ND | ND |
| Δ9-THC | Δ9-tetrahydrocannabinol | ND | ND |
| CBV | Cannabivarin | ND | ND |
| CBL | Cannabicyclol | 0.44 | 0.09 |
| CBE | Cannabielsoin | 2.81 | 0.17 |
| Δ8-THCV | Δ8-tetrahydrocannabivarin | ND | ND |
| Δ9-THCV | Δ9-tetrahydrocannabivarin | ND | ND |
| THCA | Δ9-Tetrahydrocannabinolic acid | ND | ND |
| CBDA | Cannabidiolic acid | ND | ND |
| CBGA | Cannabigerolic acid | ND | ND |
| CBDVA | Cannabidivarinic acid | ND | ND |
| THCVA | Δ9-Tetrahydrocannabivarinic acid | ND | ND |
| CBCA | Cannabichromenic acid | ND | ND |
| CBT | Cannabicitran | 8.17 | 0.33 |
| CBDB | Cannabidibutol | 0.10 | 0.03 |

*Method of Analysis: GC-FID (Gas Chromatography with Flame Ionization Detection) coupled wtih GC-MS (Gas Chromatography-Mass Spectrometry). The determined measurement uncertainty (M. U.) is always given in the same unit as specified result. LOQ = Values bellow quantification limit of 0.02 %. ND = Not Detected - bellow detection limit (lower than 0.01 %). Acid forms are determined using HPLC method with DAD detector with LOQ = Values bellow quantification limit of 0.02 %. ND = Not Detected - bellow detection limit (lower than 0.01 %).*

## Assay of semisynthetic and synthetically derived cannabinoids

| Short | Substance name | Assay % | M.U. |
|---|---|---|---|
| iso-THC | Δ8-iso-Tetrahydrocannabinol | ND | ND |
| S-HHC | 9S-Hexahydrocannabinol | ND | ND |
| R-HHC | 9R-Hexahydrocannabinol | ND | ND |
| R-HHCP | 9R-Hexahydrocannabiphorol | ND | ND |
| S-HHCP | 9S-Hexahydrocannabiphorol | ND | ND |
| d9-THCP | Trans-Δ9-tetrahydrocannabiphorol | ND | ND |
| CBDP | cannabidiphorol | ND | ND |
| RH4CBD | R-Tetrahydrocannibidiol | ND | ND |
| SH4CBD | S-Tetrahydrocannibidiol | ND | ND |
| d8-THCP | Trans-Δ8-Tetrahydrocannabiphorol | ND | ND |
| CBND | Cannabinodiol | 0.14 | 0.04 |
| ciso-HHC | cis-iso-Hexahydrocannabinol | ND | ND |
| tiso-HHC | trans-iso-Hexahydrocannabinol | ND | ND |
| H2CBD | 8,9-Dihydrocannabidiol | ND | ND |
| d9-THCB | Δ9-Tetrahydrocannabibutol | ND | ND |
| 9R-HHCAc | 9R-Hexahydrocannabinol Acetate | ND | ND |
| Δ10-THC | Δ10-Tetrahydrocannabinol | ND | ND |
| CBGAc | Cannabigerol acetate | ND | ND |
| S-HHCAc | 9S-Hexahydrocannabinol acetate | ND | ND |
| CBGmAc | Cannabigerol monoacetate isomer | ND | ND |
| CBNAc | Cannabinol acetate | ND | ND |
| Δ9-THCC8 | Δ9-THC-C8 | ND | ND |
| Δ8-THCC8 | Δ8-THC-C8 | ND | ND |
| CBNP | Cannabiphorol | ND | ND |
| Δ3-THC | 9(R)-Δ6a,10a-THC | ND | ND |
| Δ7-THC | 9(S)-Δ7-THC | ND | ND |
| Δ9-THCH | Δ9-THCH | ND | ND |
| Δ8-THCH | Δ8-THCH | ND | ND |
| Δ9-THCO | Δ9-THC Acetate | ND | ND |
| Δ8-THCO | Δ8-THC Acetate | ND | ND |
| Δ9-THCPO | Δ9-THCP Acetate | ND | ND |
| Δ8-THCPO | Δ8-THCP Acetate | ND | ND |
| Δ8-THCHO | Δ8-THCH Acetate | ND | ND |
| Δ9-THCVO | Tetrahydrocannabivarin Acetate | ND | ND |
| Δ8-THCVO | Δ8-Tetrahydrocannabivarin Acetate | ND | ND |
| Δ8-THCBO | Δ9-THCB Acetate | ND | ND |
| S-HHCC8 | 9(S)-Hexahydrocannabinol-C8 | ND | ND |
| R-HHCC8 | 9(R)-Hexahydrocannabinol-C8 | ND | ND |
| R-HHCH | 9(R)-Hexahydrocannabihexol | ND | ND |
| S-HHCH | 9(S)-Hexahydrocannabihexol | ND | ND |
| R-HHCB | 9(R)-Hexahydrocannabutol | ND | ND |
| S-HHCB | 9(S)-Hexahydrocannabihexol | ND | ND |
| R-HHCV | 9(R)-Hexahydrocannabivarin | ND | ND |
| S-HHCV | 9(S)-Hexahydrocannabivarin | ND | ND |
| R-HHCPAc | 9(R)-Hexahydrocannabiphorol Acetate | ND | ND |
| S-HHCPAc | 9(S)-Hexahydrocannabiphorol Acetate | ND | ND |
| 10H-RHHC | 10(S)-hydroxy-9(R)-Hexahydrocannabinol | ND | ND |
| OH-HHCP | 10-hydroxy-Hexahydrocannabiphorol | ND | ND |
| MCO-THC | Methyl Carbonate Tetrahydrocannabinol | ND | ND |

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## Screening for Spice type compounds and other synthetic cannabinoids

| Short | Substance name | Assay % | M.U. |
|---|---|---|---|
| JWH018 | JWH 018 CAS:209414-07-3 | ND | ND |
| JWH073 | JWH 073 CAS:208987-48-8 | ND | ND |
| JWH122 | JWH 122 CAS:619294-47-2 | ND | ND |
| JWH210 | JWH 210 CAS:824959-81-1 | ND | ND |
| JWH250 | JWH 250 CAS:864445-43-2 | ND | ND |
| AM2201 | AM2201 CAS:335161-24-5 | ND | ND |
| AM694 | AM694 CAS:335161-03-0 | ND | ND |
| AM1248 | AM1248 CAS:335160-66-2 | ND | ND |
| HU210 | HU-210 CAS:112830-95-2 | ND | ND |
| HU211 | HU-211 CAS:112924-45-5 | ND | ND |
| CP47497 | (±)-CP 47,497 CAS:70434-82-1 | ND | ND |
| CP55940 | (±)-CP 55,940 CAS:83003-12-7 | ND | ND |
| UR144 | UR-144 CAS:1199943-44-6 | ND | ND |
| XLR11 | XLR11 CAS:1364933-54-9 | ND | ND |
| AKB48 | APINACA CAS:1345973-53-6 | ND | ND |
| 5FAKB48 | 5-fluoro AKB48 CAS:1400742-13-3 | ND | ND |
| PB22 | PB-22 CAS:1400742-17-7 | ND | ND |
| 5FPB22 | 5-fluoro PB-22 CAS:1400742-41-7 | ND | ND |
| FUB144 | FUB-144 CAS:2185863-15-2 | ND | ND |
| FUBAMB | MMB-FUBINACA CAS:1971007-92-7 | ND | ND |
| ABFUB | AB-FUBINACA CAS:1185282-01-2 | ND | ND |
| ABCHMI | AB-CHMINACA CAS:1185887-21-1 | ND | ND |
| ADBFUB | ADB-FUBINACA CAS:1445583-51-6 | ND | ND |
| ADBPINA | ADB-PINACA | ND | ND |
| MABCHMI | MAB-CHMINACA CAS:1863065-92-2 | ND | ND |
| MDMBCHMI | MDMB-CHMICA CAS:1971007-95-0 | ND | ND |
| 5FADB | (R)-5-fluoro ADB | ND | ND |
| CUMYPINA | 5-fluoro CUMYL-PINACA CAS:1400742-16-6 | ND | ND |
| AFB48 | AKB48 N-(4-fluorobenzyl) analog CAS:2180933-90-6 | ND | ND |
| 5FAMB | 5-fluoro AMB CAS:1801552-03-3 | ND | ND |
| 5FABICA | 5-fluoro ABICA CAS:1801338-26-0 | ND | ND |
| 5FSDB006 | 5-fluoro SDB-006 CAS:1776086-02-2 | ND | ND |
| ADTHPIN | ATHPINACA isomer 1 CAS:1400742-48-4 | ND | ND |
| ADBCHMI | ADB-CHMICA CAS:2221100-70-3 | ND | ND |
| SGT67 | 5-fluoro CUMYL-PICA CAS:1400742-18-8 | ND | ND |
| CUMPINA | CUMYL-PINACA | ND | ND |
| CUMP7AIC | 5-fluoro CUMYL-P7AICA CAS:2171492-36-5 | ND | ND |
| CUMPICA | CUMYL-PICA CAS:1400742-32-6 | ND | ND |
| SDB006 | SDB-006 CAS:695213-59-3 | ND | ND |
| ABPINA | AB-PINACA CAS:1445752-09-9 | ND | ND |
| SGT78 | 4-cyano CUMYL-BUTINACA CAS:1631074-54-8 | ND | ND |
| 5FMD2201 | 5-fluoro MDMB-PICA CAS:1971007-88-1 | ND | ND |
| 4FMDBIN | 4-fluoro MDMB-BUTINACA CAS:2390036-46-9 | ND | ND |
| MD4enPIN | MDMB-4en-PINACA | ND | ND |
| 4FMDBIC | 4-fluoro MDMB-BUTICA CAS:2682867-53-2 | ND | ND |
| CUMPEGA | CUMYL-PeGACLONE CAS:2160555-55-3 | ND | ND |
| ADBBUTI | ADB-BUTINACA | ND | ND |
| 5FCUMPeG | 5-fluoro CUMYL-PeGACLONE CAS:2377403-49-9 | ND | ND |
| ADB4PIN | ADB-4en-PINACA | ND | ND |
| 5FMBPICA | 5-fluoro EDMB-PICA CAS:2666934-54-7 | ND | ND |

*Continues on next page*

| Short | Substance name | Assay % | M.U. |
|---|---|---|---|
| 5BrAKB48 | 5-bromo APINACA CAS:2160555-51-9 | ND | ND |
| MDINA | MDMB-INACA | ND | ND |
| 5FEPIC | 5-fluoro EMB-PICA CAS:2648861-83-8 | ND | ND |
| MD5BrIN | MDMB-5Br-INACA CAS:MD5BrIN | ND | ND |
| ADB5BrIN | ADB-5Br-INACA CAS:ADB5BrIN | ND | ND |
| EADBFU | 5,3-ADB-4en-PFUPPYCA CAS:EADBFU | ND | ND |
| FUACADB | ADB-FUBIATA CAS:2938025-73-9 | ND | ND |
| AP5BIN | ADB-5'Br-PINACA CAS:AP5BIN | ND | ND |
| SGT152 | CUMYL-NBMINACA CAS:1631074-60-6 | ND | ND |
| ADBHEX | ADB-HEXINACA CAS:ADBHEX | ND | ND |
| RCS4 | RCS-4 CAS:1345966-78-0 | ND | ND |
| FAP7A | 5-fluoro 7-APAICA CAS:2682867-58-7 | ND | ND |
| BZHEX | MDA 19 CAS:1048973-47-2 | ND | ND |
| BZPOX | BZO-POXIZID CAS:1048973-64-3 | ND | ND |
| CUCHM | CUMYL-CH-MeGACLONE CAS:2813950-07-9 | ND | ND |
| 7APICA | AP7AICA CAS:2366269-62-5 | ND | ND |
| CMP7CA | CUMYL-P7AICA CAS:2366268-31-5 | ND | ND |
| EDMBPIN | EDMB-PINACA CAS:2666934-55-8 | ND | ND |
| MDMBPIN | MDMB-PINACA | ND | ND |
| MDMBBUTI | MDMB-BUTINACA | ND | ND |
| MDMB5INA | MDMB-5Me-INACA | ND | ND |
| EDMB4PIN | EDMB-4en-PINACA | ND | ND |
| MDMBrPIN | MDMB-5'Br-4en-PINACA | ND | ND |
| MDMB5HEX | MDMB-5en-HEXINACA | ND | ND |
| ADB5HEX | ADB-5en-HEXINACA | ND | ND |
| MDMBIPIN | MDMB-IPINACA | ND | ND |
| ADBIPIN | ADB-IPINACA | ND | ND |

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This certificate was reviewed by Ivan Plantan PhD, quality control on 2026-10-26.

This certificate was approved by Tina Pungartnik, director on 2026-10-26.